

Title (en)
MONITOR DEVICE FOR A LIGHTING ARRANGEMENT, A DRIVER USING THE MONITORING ARRANGEMENT, AND A DRIVING METHOD

Title (de)
ÜBERWACHUNGSVORRICHTUNG FÜR EINE BELEUCHTUNGSANORDNUNG, TREIBER MIT VERWENDUNG DER
ÜBERWACHUNGSEINRICHTUNG UND ANSTEUERUNGSVERFAHREN

Title (fr)
DISPOSITIF DE SURVEILLANCE D'UN AGENCEMENT D'ÉCLAIRAGE, CIRCUIT D'ATTAQUE UTILISANT L'AGENCEMENT DE SURVEILLANCE
ET PROCÉDÉ DE COMMANDE

Publication
EP 3669616 A1 20200624 (EN)

Application
EP 18749816 A 20180810

Priority
• EP 17186778 A 20170818
• EP 2018071715 W 20180810

Abstract (en)
[origin: WO2019034543A1] A monitor device is provided for monitoring a lighting arrangement of lighting elements of unknown electrical load, and a driver using the monitoring arrangement. A set of duty cycles is applied to switches which control sub-sets of lighting elements thereby to create a desired light output. With this desired duty cycle setting, the current for an individual duty cycle period is monitored, in particular to detect variations in a current plateau level 5 within the individual duty cycle period. This is used to determine a power consumption of the lighting arrangement and to adjust the duty cycles as a function of the detected current. This avoids the need to probe the sub-sets of lighting elements individually in order to determine the nature of the load and its power consumption.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP US)
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